

Eglantine Boulard

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

723
citations

567144

15
h-index

552653

26
g-index

26
all docs

26
docs citations

26
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal expansion of liquid Fe-S alloy at high pressure. <i>Earth and Planetary Science Letters</i> , 2021, 563, 116884.	1.8	8
2	Quantitative 4D X-ray microtomography under extreme conditions: a case study on magma migration. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1598-1609.	1.0	5
3	Melting properties by X-ray absorption spectroscopy: common signatures in binary Fe-C, Fe-O, Fe-S and Fe-Si systems. <i>Scientific Reports</i> , 2020, 10, 11663.	1.6	13
4	Axial Compressibility and Thermal Equation of State of Hcp Fe-5wt% Ni-5wt% Si. <i>Minerals (Basel)</i> , 2021, 11, 1080.	0.8	0
5	Synchrotron x-ray computed microtomography for high pressure science. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	9
6	Following the phase transitions of iron in 3D with X-ray tomography and diffraction under extreme conditions. <i>Acta Materialia</i> , 2020, 192, 30-39.	3.8	21
7	Structure and elasticity of cubic Fe-Si alloys at high pressures. <i>Physical Review B</i> , 2019, 100, .	1.1	15
8	Thermal Conductivity of FeS and Its Implications for Mercury's Long-Sustaining Magnetic Field. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2359-2368.	1.5	20
9	Recent Tomographic Imaging Developments at the PSICHE Beamline. <i>Integrating Materials and Manufacturing Innovation</i> , 2019, 8, 551-558.	1.2	15
10	Ferrous Iron Under Oxygen-Rich Conditions in the Deep Mantle. <i>Geophysical Research Letters</i> , 2019, 46, 1348-1356.	1.5	22
11	Velocity-Density Systematics of Fe-5wt%Si: Constraints on Si Content in the Earth's Inner Core. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 3436-3447.	1.4	23
12	High-speed tomography under extreme conditions at the PSICHE beamline of the SOLEIL Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 818-825.	1.0	16
13	CO ₂ -induced destabilization of pyrite-structured FeO ₂ H _x in the lower mantle. <i>National Science Review</i> , 2018, 5, 870-877.	4.6	15
14	Fe-FeO and Fe-Fe ₃ C melting relations at Earth's core-mantle boundary conditions: Implications for a volatile-rich or oxygen-rich core. <i>Earth and Planetary Science Letters</i> , 2017, 473, 94-103.	1.8	77
15	Structure and Density of Fe-C Liquid Alloys Under High Pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7813-7823.	1.4	28
16	Transformations and Decomposition of MnCO ₃ at Earth's Lower Mantle Conditions. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	7
17	Tomography and imaging at the PSICHE beam line of the SOLEIL synchrotron. <i>Review of Scientific Instruments</i> , 2016, 87, 093704.	0.6	59
18	Pressure-induced phase transition in MnCO ₃ and its implications on the deep carbon cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4069-4079.	1.4	23

#	ARTICLE	IF	CITATIONS
19	Tetrahedrally coordinated carbonates in Earth's lower mantle. <i>Nature Communications</i> , 2015, 6, 6311.	5.8	55
20	Density measurements and structural properties of liquid and amorphous metals under high pressure. <i>High Pressure Research</i> , 2014, 34, 9-21.	0.4	26
21	Bonding and electronic changes in rhodochrosite at high pressure. <i>American Mineralogist</i> , 2013, 98, 1817-1823.	0.9	20
22	Nanoprobes for Deep Carbon. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 75, 423-448.	2.2	10
23	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	68
24	The influence on Fe content on Raman spectra and unit cell parameters of magnesite-siderite solid solutions. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 239-246.	0.3	39
25	New host for carbon in the deep Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5184-5187.	3.3	118